TELXON

Telxon Corporation/3330 West Market Street, Akron, Ohio 44333/216-867-3700/800-800-8001

Part No. 13976-000-02

Printed in Singapore

TELXON

GUIDE TO THE PTC-610

Batteries

The PTC-610 uses three AA-size alkaline batteries as its standard source of power. As an option, the PTC can use three AA-size rechargeable nickel-cadmium batteries. A battery charger is included with PTCs ordered with rechargeable batteries.

The PTC tells you when the batteries are going dead by beeping five times and showing the message "LOW BATTERY" on its display. When this happens, either replace the batteries (if your PTC contains alkaline batteries) or charge the batteries (if your PTC contains nickel-cadmium batteries).

Note: When the PTC's batteries are extremely weak, the PTC-610 does not operate, beep, or show the low-battery message. In this event, replace or charge the batteries immediately.

CAUTION! If your PTC-610 contains alkaline batteries, do not store it for more than two months without replacing the batteries. If your PTC-610 contains nickel-cadmium batteries, do not store it for more than one month without charging the batteries. Otherwise, your data or program may be lost.

Application ROM Cartridge (ARC)

The application ROM cartridge (ARC) contains the PTC's program. The ARC determines the PTC's key functions, the prompts and messages on the display, and the procedure for sending, receiving, and printing data.

ARCs are removable and interchangeable, although during normal use there is no need to remove or change an ARC.

Features

Power Backup System

The PTC-610's power backup system protects stored data and programs for up to 20 minutes after you remove the PTC's batteries.

CAUTION! If the batteries are too weak to operate the PTC, do not remove the batteries until you are ready to immediately install new batteries. Otherwise, your data or program will be lost.

Clock and Calendar

A clock and calendar are built into the PTC-610. Depending on your program, the PTC may use the clock and calendar to show the time and date on its display or to record the time and date of data entries.

Automatic Off

To conserve battery power, the PTC-610 automatically turns itself off after about one minute of inactivity. The exact length of time depends on your PTC's program.

Automatic Return at On

When you turn the PTC-610 off, or when it turns itself off, it "remembers" where it was in the program. Then, when you turn the PTC-610 back on, it returns to that same point in its program. You do not need to review what you have done so far to find your place.

Handling and Maintaining the PTC-610

Follow these suggestions to keep your PTC in top working condition.

Use and Storage

- Protect the PTC and its accessories from harsh, dirty environments and from excessive heat, cold, and moisture.
- Do not use the PTC for more than 10 minutes in temperatures below 32°F (0°C) or above 120°F (49°C).
- Do not store the PTC in temperatures below -20°F (-29°C) or above 160°F (71°C).
- If your PTC-610 contains nickel-cadmium batteries and you store it in below-freezing temperatures for more than one hour, do not charge the batteries until the PTC reaches normal room temperature. Do not store the PTC for more than one month without charging the batteries.
- If your PTC contains alkaline batteries, do not store the PTC for more than two months without replacing the batteries.

Cleaning

- Clean the PTC by slightly moistening a clean, soft, lint-free cloth with a mild, non-abrasive plastic cleaner and wiping the outside surfaces. Do not soak the cloth and do not spray or pour cleaning liquids directly on the PTC.

a bar-code reader, your PTC will also have a holder for the bar-code reader.

Bar-Code Reader Socket

The bar-code reader plugs into the PTC-610 through the bar-code reader socket. If your PTC-610 was ordered without a bar-code reader, a plastic plug will cover the socket. Do not remove the plastic plug except to connect a bar-code reader to your PTC-610.

Acoustic Coupler

The PTC-610's acoustic coupler changes the PTC's data into sounds that the telephone system can transmit to a main computer. Depending on your PTC's program, the acoustic coupler may also automatically dial the telephone number of the main computer.

Elastic Strap

The PTC's elastic strap has two purposes: as a hand strap, it secures the PTC to the palm of your hand; as a telephone-receiver strap, it secures a telephone receiver to the acoustic coupler.

25-Pin Connector

The PTC-610's accessories (except the bar-code reader) connect by way of the PTC's 25-pin connector. Some connect directly to the 25-pin connector and others connect to it with a cable.

Note: Use only Telxon-approved cables and accessories with the PTC-610.

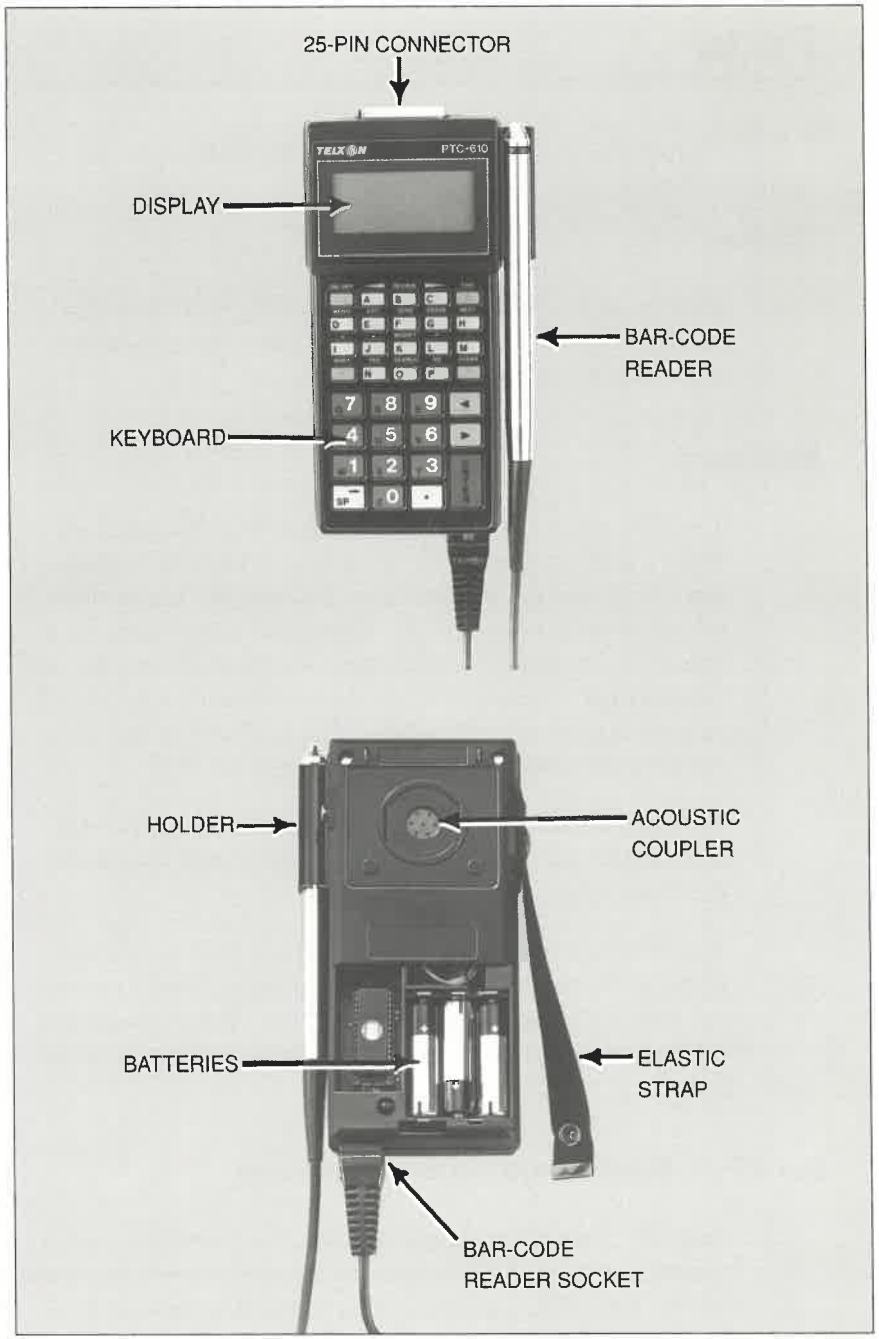

Figure 3. Parts of the PTC-610

Cables and Accessories

- Do not insert any foreign object into the 25-pin connector or the bar-code reader socket.
- Ensure that all accessories are connected correctly and those with locks are locked in place.
- Use only Telxon-approved accessories. Do not attempt to connect any device that is not part of the PTC-610 system to the PTC-610.
- Use only Telxon-approved interface cables.

Service

- Do not attempt to service the PTC. Only a trained technician may service the PTC.

Replacing Alkaline Batteries

To Remove the Batteries:

1. Be sure the PTC is off.
2. Insert a coin in the slot at the bottom of the battery compartment cover (see Figure 4).
3. Apply light pressure to the coin and the cover will pop up. Remove the cover from the case.

   CAUTION! Once you remove the PTC's batteries, the power backup system will protect stored programs and data for up to 20 minutes. If you do not replace the batteries within this time period, your PTC's stored program(s) and data will be lost.
4. Remove the batteries with your fingers. Be careful not to damage the battery contacts.

Figure 4. Removing the Battery Compartment Cover

Parts

Figure 3 shows the locations of the PTC-610's main parts.

Display

Prompts and messages appear on the PTC-610's four-line display. Each line of the display can show up to 16 letters, numbers, or symbols.

Keyboard

The PTC-610's keyboard has data keys and function keys. The data keys consist of the letter keys (A-Z), the number keys (0-9), and the symbol keys. You use the data keys to enter information into the PTC. The function keys perform a specific procedure. For example, your program may use one function key to send the PTC's data to a main computer and another to erase the PTC's data. The keyboard is specific to the program your organization is using in the PTC.

The PTC's SHIFT key lets you alternate between the letter keys and the number keys. It also activates and deactivates the function keys.

Your PTC's program may turn off certain keys at selected points in the program to prevent you from accidentally erasing data or ending an operation too soon. When you press a key that the program has turned off, the key will have no effect.

Bar-Code Reader and Holder (Optional)

Your PTC may have an optional bar-code reader that lets you enter data into the PTC by passing the reader across bar-code labels. Your PTC's program determines the type(s) of bar-code labels you can scan. If your PTC-610 was ordered with

Overview of the PTC-610

The PTC-610 (see Figure 2) is a battery-powered, hand-held computer that you use to collect, store, and send data. PTC accessories are available for scanning bar codes, printing data, and sending data to a main computer.

The PTC runs a program designed to collect data for your organization. This program leads you through the data-collection procedure with a series of prompts, beeps, and messages. Prompts are words and symbols that tell you when to enter data and what type of data to enter. Messages and beeps tell you when you make errors or complete certain operations; they can also provide information on the status of the PTC and its program.

You can enter data into the PTC by typing information on the keyboard or by passing the optional bar-code reader across the bar-code label.

After you enter the data, the PTC must send the data to a main computer for processing, or send it to a printer for a printed copy, or both, to make the data useful to you and your organization.

Figure 2. The PTC-610

To Replace the Batteries:

1. Insert the new batteries according to the diagram inside the battery case (see Figure 5).
2. Line up the battery compartment cover so that the recessed edge on the top of the cover is under the flange of the PTC's case.
3. Press down lightly on the cover to snap it into place.

Figure 5. Replacing Alkaline Batteries

Charging Nickel-Cadmium Batteries

CAUTION! Do not connect a battery charger to a PTC-610 that contains alkaline batteries. Attempting to charge alkaline batteries can cause them to burst, which can result in considerable equipment damage.

1. Connect the battery charger to the PTC-610's 25-pin connector (see Figure 6).

2. Plug the battery charger into a standard 110-volt electrical outlet. The charger's red indicator light shows that the batteries are charging.

   Note: 220-volt outlets, used outside North America, require a different battery charger than that shown in Figure 6; see your Telxon sales representative for ordering information.

3. Allow the batteries to charge for 12 to 14 hours. Afterward, unplug the battery charger from the electrical outlet; then disconnect it from the PTC.

Figure 6. Connecting the Battery Charger

Note: 220-volt outlets, used outside North America, require a different battery charger than that shown in Figure 1; see your Telxon sales representative for ordering information.

3. Allow the batteries to charge for 12 to 14 hours. Afterward, unplug the battery charger from the electrical outlet; then disconnect it from the PTC.

Before You Use the PTC-610

Follow these steps if your PTC-610 contains nickel-cadmium batteries.

Charge the Nickel-Cadmium Batteries

CAUTION! Do not connect a battery charger to a PTC-610 that contains alkaline batteries. Attempting to charge alkaline batteries can cause them to burst, which can result in equipment damage.

1. Connect the battery charger to the PTC-610's 25-pin connector (see Figure 1).
2. Plug the battery charger into a standard 110-volt electrical outlet. The charger's red indicator light shows that the batteries are charging.

Figure 1. Charging the Nickel-Cadmium Batteries

Connecting and Removing Accessories

PTC-610 accessories include printers, battery chargers, and interface cables.

To Connect an Accessory:

1. Turn the PTC-610 off.
2. Line up the pins on the end of the accessory cable, or the 25-pin connector on the accessory, with the holes in the PTC-610's 25-pin connector. If the accessory has a locking latch, be sure the latch is in the unlocked (far left) position (see Figure 7).
3. Press the cable's connector or the accessory firmly onto the PTC-610's 25-pin connector. Do not use a rocking or twisting action. If you are connecting an accessory directly, slide the accessory's locking latch to the locked (far right) position.

Figure 7. Accessory Locking Latch

4. If you are connecting a cable, follow the procedure in Step 2 to connect the other end of the cable to the accessory.

To Remove an Accessory:

1. Turn the PTC-610 off.
2. If you are removing an accessory that connects directly to the PTC-610, slide the accessory's locking latch to the unlocked (far left) position (see Figure 7).

   CAUTION! If you are removing a cable from the PTC-610, grasp the cable connector head to remove the cable. Pulling on the cable can break the wiring near the cable connector head.

3. Pull the cable's connector or the accessory straight away from the PTC's 25-pin connector.

Unpacking the PTC-610

When you receive the PTC-610, the package should contain the following:

- PTC-610
- battery charger (if the PTC-610 was ordered with nickel-cadmium batteries)
- bar-code reader (if ordered)

Charging Nickel-Cadmium Batteries 14

Connecting and Removing Accessories 15
To Connect an Accessory 15
To Remove an Accessory 16

Scanning Bar-Code Labels 17

Attaching the Acoustic Coupler to a Telephone Receiver 18

Troubleshooting 19
If the PTC Does Not Turn On 19
If the Bar-Code Reader Does Not Read a Label . . . 19

FCC Regulations 20
TCM-100 Optional Accessory 20

Scanning Bar-Code Labels

Follow this procedure if you are scanning labels with a pencil wand bar-code reader. If you are using another type of reader, see the instructions shipped with the reader.

1. Place the tip of the bar-code reader to the left or right of the bars in the bar-code label. Make sure the reader touches the label and is within 30 degrees of vertical in any direction (see Figure 8).

2. Draw the bar-code reader across the label with a smooth, quick motion. The PTC beeps when the scanner successfully reads the label.

   Note: Do not draw the reader across the label too slowly. More failures occur from scanning too slowly than from scanning too quickly.

If the bar-code reader fails to read the label, the label may be worn or dirty. Wipe off the label and try again.

If the bar-code reader still fails to read the label, try scanning across the top or bottom of the bars in the bar code. If necessary, wipe off the tip of the bar-code reader.

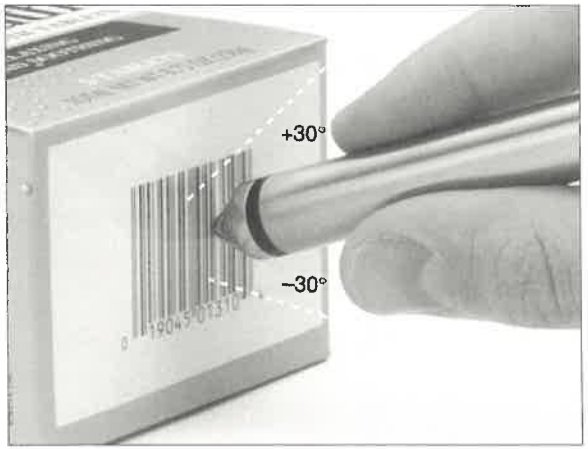

Figure 8. Scanning Bar-Code Labels

Attaching the Acoustic Coupler to a Telephone Receiver

1. Disconnect the PTC's elastic strap from the PTC.
2. Place the acoustic coupler over the mouthpiece of the telephone receiver (see Figure 9). Make sure the receiver is centered over the acoustic coupler.
3. Stretch the elastic strap across the receiver and snap it onto the PTC to hold the receiver in place.

For information on sending and receiving data, see the instructions provided by your organization for your PTC system.

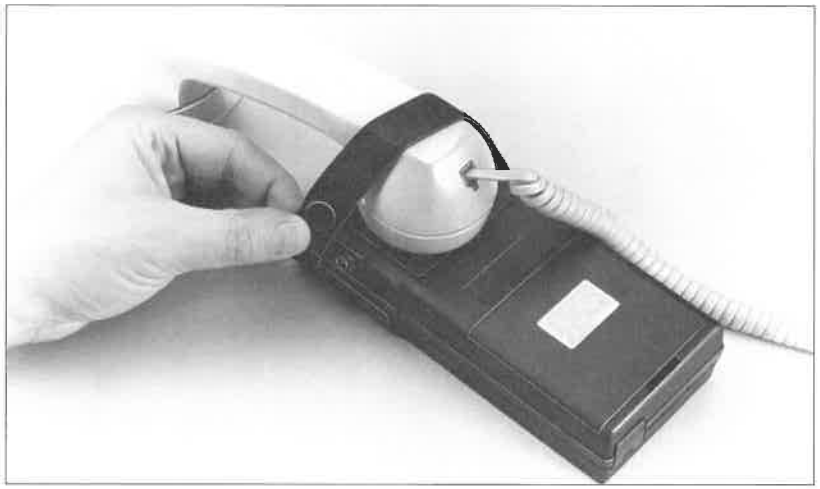

Figure 9. Attaching the Acoustic Coupler to a Receiver

Contents

Unpacking the PTC-610 1

Before You Use the PTC-610 2
Charge the Nickel-Cadmium Batteries 2

Overview of the PTC-610 4

Parts 5
Display 5
Keyboard 5
Bar-Code Reader and Holder (Optional) 5
Bar-Code Reader Socket 7
Acoustic Coupler 7
Elastic Strap 7
25-Pin Connector 7
Batteries 8
Application ROM Cartridge (ARC) 8

Features 9
Power Backup System 9
Clock and Calendar 9
Automatic Off 9
Automatic Return at On 9

Handling and Maintaining the PTC-610 10
Use and Storage 10
Cleaning 10
Cables and Accessories 11
Service 11

Replacing Alkaline Batteries 12
To Remove the Batteries 12
To Replace the Batteries 13

Telxon is a registered trademark of Telxon Corporation.

The information contained in this manual is subject to change without notice.

Telxon Corporation shall not be liable for technical or editorial omissions or mistakes in this manual nor shall it be liable for incidental or consequential damages resulting from your use of the information contained in this manual.

This manual contains confidential and proprietary information and is copyrighted. All rights are reserved. No part of this manual may be photocopied or reproduced in any form without the prior written consent of Telxon.

© Copyright Telxon Corporation, 1990

All Rights Reserved.

Troubleshooting

If the PTC Does Not Turn On:

- Replace the batteries if they are alkaline; charge the batteries if they are nickel-cadmium.
- Replace the nickel-cadmium batteries.

If the Bar-Code Reader Does Not Read a Label:

- Try scanning across the top or bottom of the bars in the label.
- Make sure the bar-code reader is connected securely to the PTC-610.
- Wipe off the bar-code label.
- Wipe off the tip of the wand.

FCC Regulations

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with this operator's guide, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operating this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

TCM-100 Optional Accessory

According to 47 C.F.R. Part 68, Section 68.106 (1983) of FCC regulations, the customer must notify the telephone company before connecting the TCM-100 modem to the telephone line for the first time, and also when permanently removing the modem from service. Such notice must include the FCC Registration Number of the modem. The FCC Registration Number for the Telxon TCM-100 modem is BC588G-13569-DM-N.

TELXON

Guide to the

PTC-610

Part Number: 13976-000-02
Release Date: June 20, 1990